## Claims

We claim:

1. A method for dynamically determining a transmission sequence of FGS encoded video images composed of a plurality of macroblocks distributed among a plurality of bit-planes to allow for selective enhancement of desired portions of said video image, said transmission sequence being predetermined, said method comprising the steps of:

determining at least one of said FGS encoded macroblocks in each of said bit-planes associated with said desired portion of said video image;

determining an order of transmission of each of said determined at least one of said FGS encoded macroblocks with said transmission sequence; and advancing each of said at least one of said determined FGS encoded macroblocks in said transmission sequence order corresponding to a known level of enhancement, wherein said advanced FGS encoded macroblocks are contained in a bit-plane having a higher transmission priority.

- 2. The method as recited in claim 1 further comprising the step of:
  - filling said transmission sequence with a known value to maintain said transmission sequence order.
- 3. The method as recited in claim 2 wherein said known value is representative of a not significant value.
- 4. The method as recited in claim 1 further comprising the step of:

  determining said desired portion from a user request.
- 5. The method as recited in claim 1 further comprising the step of:

determining said known enhancement level from a user request.

- 6. The method as recited in claim 1 further comprising the step of:

  determining said desired portion in accordance with known factors.
- 7. The method as recited in claim 6 wherein said known factors are selected from the group comprising: center of image, faces, moving images, etc.
- 8. The method as recited in claim 1 wherein further comprising the step of:

  determining said enhancement factor in accordance with an available network bandwidth.
- 9. The method as recited in claim 1 wherein said predetermined transmission sequence is selected from the group comprising: horizontal, vertical, diagonal, raster, progressive, interlaced scans.
- 10. The method as recited in claim 1 further comprising the step of:

  determining said transmission sequence order from said transmission sequence.
- 11. A device for dynamically determining a transmission sequence of FGS encoded video images composed of a plurality of macroblocks distributed among a plurality of bit-planes to allow for selective enhancement of desired portions of said video image, said transmission sequence being predetermined, said device comprising:

means for determining at least one of said FGS encoded macroblocks in each of said bit-planes associated with said desired portion of said video image;

means for determining an order of transmission of each of said determined at least one of said FGS encoded macroblocks with said transmission sequence; and

means for advancing each of said at least one of said determined FGS encoded macroblocks in said transmission sequence order corresponding to a known level of enhancement, said advanced FGS encoded macroblocks are contained in a bit-plane having a higher transmission priority.

12. The device as recited in claim 11 further comprising:

means for filling said transmission sequence with a known value to maintain said transmission sequence order.

- 13. The device as recited in claim 12 wherein said known value is representative of a not significant value.
- 14. The device as recited in claim 11 further comprising:
  means for determining said desired portion from a user request.
- 15. The device as recited in claim 11 further comprising:

means for determining said known enhancement level from a user request.

16. The device as recited in claim 11 further comprising:

means for determining said desired portion in accordance with known factors.

- 17. The device as recited in claim 16 wherein said known factors are selected from the group comprising: center of image, faces, moving images, etc.
- 18. The device as recited in claim 11 wherein further comprising:

means for determining said enhancement factor in accordance with an available network bandwidth.

- 19. The device as recited in claim 11 wherein said predetermined transmission sequence is selected from the group comprising: horizontal, vertical, diagonal, raster, progressive, interlaced scans.
- 20. The device as recited in claim 19 further comprising:

means for determining said transmission sequence order from said transmission sequence.

21. A system for dynamically determining a transmission sequence of FGS encoded video images composed of a plurality of macroblocks distributed among a plurality of bit-planes to allow for selective enhancement of desired portions of said video image, said transmission sequence being predetermined, said system comprising:

a memory including

code for determining at least one of said FGS encoded macroblocks in each of said bit-planes associated with said desired portion of said video image;

code for determining an order of transmission of each of said determined at least one of said FGS encoded macroblocks with said transmission sequence; and

code for advancing each of said at least one of said determined FGS encoded macroblocks in said transmission sequence order corresponding to a known level of enhancement, said advanced FGS

encoded macroblocks are contained in a bit-plane having a higher transmission priority; and

a processor in communication with said memory, said processor operable to execute said code.

- 22. The system as recited in claim 21 wherein said memory further includes:

  code for filling said transmission sequence with a known value to maintain said transmission sequence order.
- 23. The system as recited in claim 22 wherein said known value is representative of a not significant value.
- 24. The system as recited in claim 21 wherein said memory further includes: code for determining said desired portion from a user request.
- 25. The system as recited in claim 21 wherein said memory further includes: code for determining said known enhancement level from a user request.
- 26. The system as recited in claim 21 wherein said memory further includes:

  code for determining said desired portion in accordance with known factors.
- 27. The system as recited in claim 26 wherein said known factors are selected from the group comprising: center of image, faces, moving images, etc.
- 28. The system as recited in claim 21 wherein said memory further includes:

  code for determining said enhancement factor in accordance with an available network bandwidth.

- 29. The system as recited in claim 21 wherein said predetermined transmission sequence is selected from the group comprising: horizontal, vertical, diagonal, raster, progressive, interlaced scans.
- 30. The system as recited in claim 29 wherein said memory further includes:

  code for determining said transmission sequence order from said transmission sequence.
- 31. The system as recited in claim 21 further comprising:

  an input/output device in communication with said processor.
- 32. The system as recited in claim 31 wherein said input/output device is operable to receive or transmit information over a network.
- 33. The system as recited in claim 32 wherein said network is selected from the group comprising: POTS, Internet, LAN, WAN, Intranet.
- 34. The system as recited in claim 32 wherein said user requests are received over said network.